

CLAIMS

What is claimed is:

- 1 1. An inspection apparatus for diagnosis, comprising:
2 a micro processing unit for actuating units and modules of the inspection apparatus
3 via an instruction of a user or a program;
4 an input unit for allowing the user to input the instruction or data;
5 a conversion module comprising at least a receive unit for receiving sound and a
6 transceiver unit for emitting and receiving ultrasonic wave energy signals;
7 a signal processing module for converting analog signals received by the conversion
8 module into digital signals;
9 a memory unit for allowing high-speed data access for the units and modules of the
10 inspection apparatus;
11 a storage unit for storing data processed by the micro processing unit according to
12 the instruction inputted via the input unit; and
13 a communicate module controlled by the micro processing unit, for allowing data
14 communication between the inspection apparatus and at least one data processing device
15 connected to the inspection apparatus.

- 1 2. The inspection apparatus as claimed in claim 1, wherein the input unit is one
2 selected from the group consisting of a keyboard, touch panel, mouse, and track ball.

1 3. The inspection apparatus as claimed in claim 1, wherein the conversion module
2 further comprises an infrared body temperature inspection unit.

1 4. The inspection apparatus as claimed in claim 1, wherein the conversion module
2 further comprises a pulse inspection unit.

1 5. The inspection apparatus as claimed in claim 1, wherein the memory unit is one
2 selected from the group consisting of a dynamic random access memory (DRAM),
3 synchronous dynamic random access memory (SDRAM), and double data rate synchronous
4 dynamic random access memory (DDRSDRAM).

1 6. The inspection apparatus as claimed in claim 1, wherein the storage unit is one
2 selected from the group consisting of a hard disk drive (HDD), compact flash (CF) card,
3 smart media (SM) card, memory stick, secure digital (SD) card, and extreme digital (XD)
4 card.

1 7. The inspection apparatus as claimed in claim 1, wherein the communicate module
2 comprises a wireless transmitting interface.

1 8. The inspection apparatus as claimed in claim 7, wherein the wireless transmitting
2 interface is one selected from the group consisting of a radio frequency (RF) transmitting
3 interface, infrared transmitting interface, and blue tooth transmitting interface.

1 9. The inspection apparatus as claimed in claim 1, further comprising a display unit
2 controlled by the micro processing unit, for displaying inspection results or processes from
3 the inspection apparatus.

1 10. The inspection apparatus as claimed in claim 9, wherein the display unit is a
2 liquid crystal display (LCD) monitor.

3
4 11. The inspection apparatus as claimed in claim 10, wherein the monitor is a touch
5 screen.

1 12. The inspection apparatus as claimed in claim 1, wherein the data processing
2 device comprises a control module connected with the communicate module of the
3 inspection apparatus via a wired or wireless transmitting interface to control operation of the
4 inspection apparatus.

5
6 13. The inspection apparatus as claimed in claim 12, wherein the control module is a
7 software program or firmware incorporated in the data processing device.

1 14. The inspection apparatus as claimed in claim 12, wherein the data processing
2 device further comprises a display unit for displaying inspection results from the inspection
3 apparatus.